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## Washington University Record, August 6, 1987

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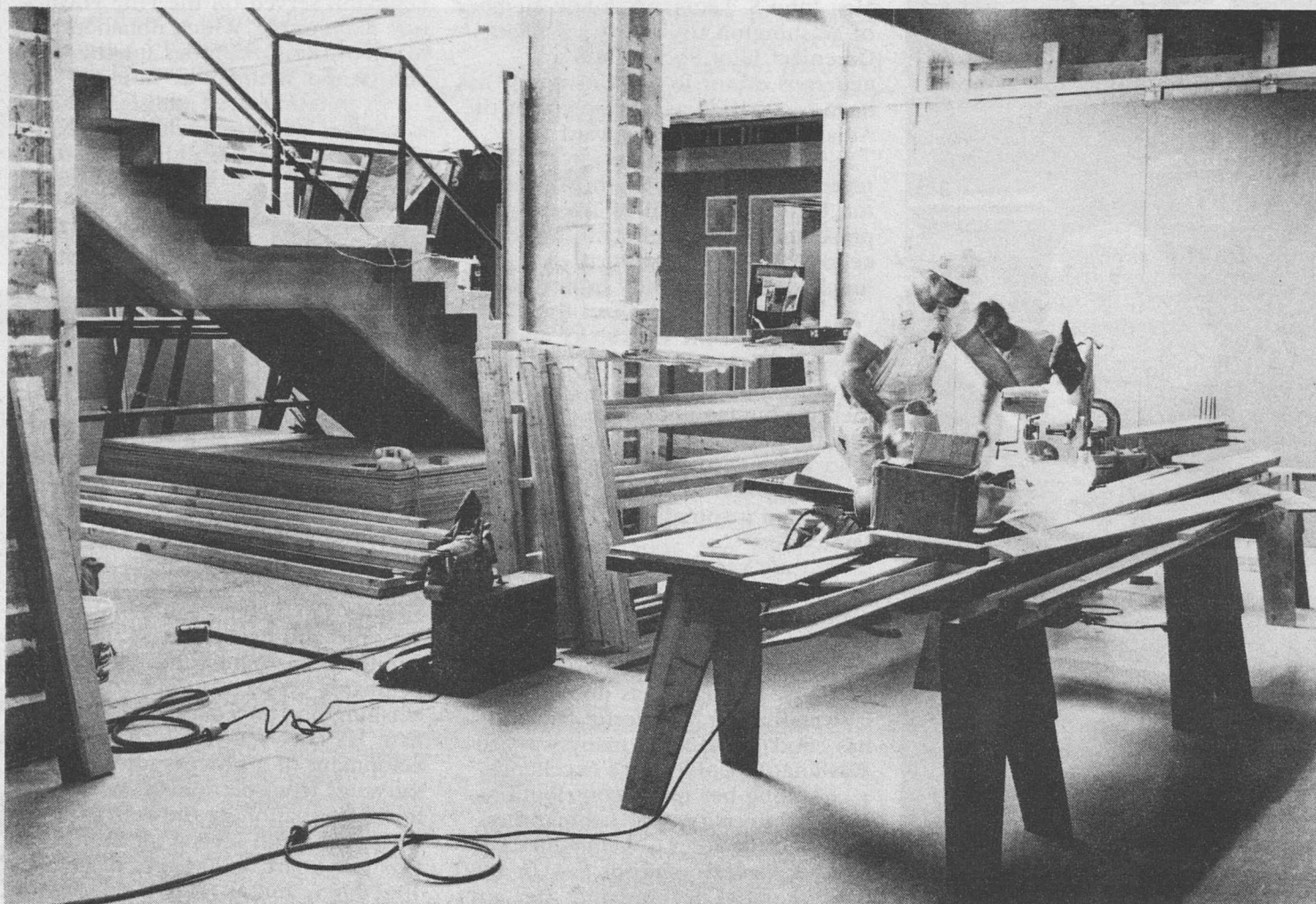
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## Gallery face-lift

Renovation of the Gallery of Art's lower level exhibition galleries is under way, with plans for movable partitions, varied ceiling heights, colors and materials that will lend character to the space, and a flexible lighting system. Team Four Design of St. Louis is the architect for the project and is overseeing construction. The Gallery of Art remains closed during the lower level renovation, and will reopen Oct. 2 with the opening of "Paris in Japan," a major exhibit organized by the gallery and the Japan Foundation of Tokyo.

# Salmonella vaccine

## Vaccine's impact should hit agriculture first

Roy Curtiss III, Ph.D., professor and chairman of the Department of Biology, has announced development of two mutant strains of salmonella bacteria that can be used as a vaccine to prevent disease by salmonella in humans and animals.

Salmonella bacteria causes food poisoning in humans and disease in livestock. One species causes typhoid fever.

The first impact of the oral vaccine, which has been successfully tested in laboratory mice, is expected to be in agriculture, especially in the poultry industry where up to 60 percent of chickens raised for human consumption are infested with salmonella bacteria.

The breakthrough was accomplished through genetic engineering techniques that allowed Curtiss to delete two genes from salmonella bacteria that are needed for the bacteria to grow in animals or people. The result is harmless bacteria that provoke a response from the immune system, preparing antibodies (cells that fight disease), to later ward off other disease-causing strains of salmonella.

Curtiss, who has been researching mutant strains of salmonella since 1981, announced his findings at a recent conference on biotechnology, held in San Diego, Calif.

In theory, an oral vaccine similar to polio or flu vaccines could be developed for humans; the greatest need would be in Third World countries where typhoid fever still is a killer disease.

While it is unlikely that people, at least in developed countries, will become vaccinated against salmonella, Curtiss says agriculture is the logical place for the vaccine to make its first mark.

"If we can significantly reduce the incidence of salmonella in chickens, we should reduce the impact of the disease in humans," he says.

"But the profit margin is very small in poultry production, so a vaccine would have to be very inexpensive for farmers to use."

Curtiss is continuing his work with the mutant strains in day-old chickens and young turkeys. Eventually he will experiment with larger animals. He expects several years of research and development before the vaccine will become available commercially.

The new salmonella vaccine triggers all three branches of the immune system — mucosal, fluid and cellular. Because the tailored strains activate the mucosal immunity system (which guards against disease-causing microbes in the mouth, lungs, intestinal lining and elsewhere), they might be

used in developing other vaccines against microbes that gather in those areas — vaccines against whooping cough in chickens and turkeys, and dental cavities in humans, for instance.

The new salmonella strains can be engineered to be bivalent, meaning, they do more than one thing. Like a football player who is a triple threat or a musician who plays several instruments equally well, Curtiss' patented mutants are versatile.

What excites the scientist most is the ability of the mutant strains to carry antigens (toxins, proteins or carbohydrates) to the body so that the antibodies, triggered by the salmonella, give immunity to the specific disease.

In 1984, Curtiss developed, through genetic engineering, a vaccine against dental cavities by using non-disease-causing salmonella that carry surface proteins from the bacteria that form dental plaque. The antibodies induced in saliva then prevent bacteria from forming plaque, and thus cavities.

The mutant salmonella strains should improve the effectiveness of this dental cavities' vaccine, which is still in the experimental stage, Curtiss says.

Tony Fitzpatrick

## Medal of Sciences

## Reagan bestows award on Pake, Levi-Montalcini

Rita Levi-Montalcini, Ph.D., professor of biology emerita at Washington University and 1986 Nobel Prize winner for physiology or medicine, and George E. Pake, Washington trustee emeritus and former provost and executive vice chancellor, were awarded the National Medal of Sciences by President Ronald Reagan on June 25 during a White House ceremony.

The two joined 18 other scientists from throughout the country as recipients of one of the nation's most distinguished science awards.

Levi-Montalcini, director of the Institute of Cell Biology in Rome, Italy, since 1977, was cited for: "... a major breakthrough in neurobiology by her discovery of the Nerve Growth Factor and its effect on the growth of the sympathetic nervous system, which set the stage for worldwide studies of the molecules involved in normal and malignant growth."

The scientist came to Washington University in 1947 to conduct her research on the Nerve Growth Factor (NGF) in the University's former Department of Zoology, now the Department of Biology. In 1951, she discovered NGF and isolated it in collaboration with Stanley Cohen, Ph.D., who shared the Nobel Prize with her.

NGF, a protein produced by salivary glands, is important for the growth of certain types of nerve cells. Levi-Montalcini's discovery of NGF laid the groundwork for discovery of many other growth factors, including the epidermal growth factor, which Cohen discovered.

The genes for the epidermal growth factor and for tumors seem to be related, which can have major implications for cancer research. Also, it is thought NGF may become important for research on growth and regeneration in the nervous system.

Levi-Montalcini retired from Washington University in 1977. She



Rita Levi-Montalcini



George E. Pake

still conducts research on NGF at the Institute of Cell Biology.

Pake, group vice president of Xerox Corp. in Palo Alto, Calif., was cited for: "... his commitment to creative excellence in support of institutional purpose. Whether as a research scientist, physics teacher, university administrator or corporate executive, every institution he has served has been measurably strengthened by his contributions."

Pake's research specialties are magnetic resonance, solid state phy-

Continued on p. 2





**Furniture finds:** Rosemary Falk (left), a volunteer for the Furniture Exchange, and Junko Takeda, whose husband is a new postdoctoral student at the medical school, examine a lamp for sale at the exchange, a store run by the Women's Society of Washington University. The store, located at 6551 University Drive, sells a variety of new and used furniture to all students and first-year faculty and staff. The furniture ranges from bookshelves to beds. Because of high demand, the store is open from 10 a.m. to 3 p.m. Monday through Friday up to Aug. 28. The store, which normally is open during those same hours on Mondays and Wednesdays, will resume its regular schedule in September.

## Scientists gather for math conference

Scientists from around the world are meeting Aug. 4-7 at the Adam's Mark Hotel in St. Louis to discuss mathematical modelling, an expanding concept that cuts across many disciplines.

Co-sponsored by Washington University, the Sixth International Conference on Mathematical Modelling (ICMM) will feature 500 papers on aspects of mathematical modelling in engineering, biological, medical, social and military sciences.

Ervin R. Rodin, Ph.D., professor of applied mathematics and systems science, is co-chairman of the conference.

Mathematical modelling is the computerized study of mathematical equations that serve as models for physical or theoretical systems — the lift of an aircraft wing, for instance, the flow of blood through arteries, or evolutionary trends in biology. The mathematical model allows scientists the opportunity to conjecture and hypothesize without having the real thing at their disposal.

Applications of mathematical modelling range from magnetism and fluid dynamics to medical imaging and graphics, population genetics, robotics and the Strategic Defense Initiative (SDI).

For more information, contact Patricia A. Busch, conference coordinator.

director, Sixth ICMM, Washington University, Campus Box 1040, One Brookings Drive, St. Louis, Mo. 63130, 889-5806.

## RECORD

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**Washington University Record** (USPS 600-430; ISSN 0745-2136), Volume 11, Number 37, Aug. 6, 1987. Published weekly during the school year, except school holidays, monthly in June, July and August, by News and Information, Washington University, Box 1070, One Brookings Drive, St. Louis, Mo. 63130. Second-class postage paid at St. Louis, Mo.

**Address changes and corrections:**  
**Postmaster and non-employees:** Send to: *Record*, Washington University, Box 1070, One Brookings Drive, St. Louis, Mo. 63130.  
**Hilltop Campus employees:** Send to: Personnel Office, Washington University, Box 1184, One Brookings Drive, St. Louis, Mo. 63130.  
**Medical Campus employees:** Send to: Personnel Office, Washington University, Box 8091, 4550 McKinley Ave., St. Louis, Mo. 63110.

## Alliance award honors donor

Mrs. John S. Lehmann, a Life Member of Washington University's William Greenleaf Eliot Society and a generous donor to the University, has been recognized as a recipient of the Alliance Appreciation Award.

The special recognition award, recently established by the Washington University Board of Trustees, was presented to Mrs. Lehmann by Chancellor William H. Danforth at a luncheon held recently in her honor.

The award symbolizes the alliance between the University and the larger society. It is awarded to individuals who, by unselfish commitment to humankind, have exemplified the ideals of the University and who, through their alliance with the University, have made the institution better and inspired others to do the same.

"I am very pleased with the establishment of this award and especially with the board's selection," said Danforth. "This serves only as a small token of appreciation for all that Mrs. Lehmann has done for the University. Her wonderful backing has contributed in so many ways to Washington University's excellence."

Among her many contributions to the University, Mrs. Lehmann established the John S. Lehmann Visiting Professorship of Law in 1980 in memory of her husband. Her gifts to the University include funds for medical school scholarships, the Clinical Sciences Research Building and campus beautification.

One of the original board members of the Women's Society of Washington University, Mrs. Lehmann was awarded a life membership to the society in 1976. In her work with the Women's Society, Mrs.

Lehmann served on the Fine Furniture Committee, which obtained many of the furnishings for the University and Whittemore houses.

A longtime art enthusiast, she is a member of the St. Louis Artists' Guild and patron of the St. Louis Art Museum.



Mrs. John S. Lehmann

Lehmann studied art with the late Fred Conway, a member of the fine arts faculty. She became one of his most proficient students and helped establish the Fred Conway Scholarship in his memory. In 1972, she received the St. Louis Globe-Democrat's Woman of Achievement Award for Creative Philanthropy.

Mrs. Lehmann, formerly Anne Shepley Lionberger, is a member of a very old and prominent St. Louis family. Her late husband, John S. Lehmann, was a 1910 graduate of the Washington University School of Law. He later was involved in the development of a process for extracting saltwater from petroleum, which led to the formation of the Petrolite Corp. Lehmann served on the University's Board of Trustees from 1941-1963, and as trustee emeritus until his death in 1967.

Mrs. Lehmann's father, the late Isaac H. Lionberger, also was a University trustee, as well as a lecturer in the law school and devoted friend to the University in the early days of its founding. Lionberger served as assistant attorney general under President Grover Cleveland.

## Registrar Richard Young dies at 44

A funeral service was held Wednesday, July 22, for Richard E. Young, university registrar at Washington University, who died Sunday, July 19. He was 44.

"Washington University has lost a loyal and devoted individual held with affection and respect by all who knew him," said Chancellor William H. Danforth.

Mr. Young joined the Washington University staff in 1968 as assistant director of admissions. In July 1976 he was named acting registrar and in October 1976 he was named director of student records. His title was changed to university registrar in 1982.

A native of South Bend, Ind., Mr. Young graduated from Washington University in 1966 with a bachelor's degree in electrical engineering. Immediately after graduating, he joined Emerson Electric as a senior radar engineer. He worked for Emer-

son until his employment at Washington.

Bill D. Smith, director of information services at the University, said that Mr. Young was instrumental in the design and implementation of the student information system that has been in place since 1978. "It is a state-of-the-art computer system and is considered one of the best in the country," said Smith. "Dick Young was one of the leaders in the design team of that system."

Surviving are his parents, Edward J. and June S. Young, of Mobile, Ala.; a brother, Donald Young, of Toronto, Canada; and his grandfather, Harvey Sperling, of Mobile, Ala.

His parents have established the Richard E. Young Memorial Scholarship in the School of Engineering and Applied Science. Contributions to the scholarship can be sent to Washington University, Campus Box 1163, St. Louis, MO 63130.

## Medal of Sciences — continued from p. 1

sics and magnetism. He is the author of three books on physics and dozens of journal articles.

Pake joined the Washington University faculty in 1948 as an assistant professor of physics, and was named professor in 1953. In 1956, he joined the Stanford University faculty and then returned to Washington in 1962 to become provost. He was given the additional title of executive vice chancellor in 1967. In 1970, Pake be-

came vice president and manager of the Xerox Palo Alto Research Center. Since then, he has moved through the ranks of Xerox and was named group vice president in 1983.

Also in 1983, the American Physical Society created the George E. Pake Prize, an award for outstanding work by physicists combining research with leadership in management of research or development in industry.



# NOTABLES

**Ramesh K. Agarwal**, Ph.D., affiliate professor of mechanical engineering, presented two papers at the American Institute of Aeronautics and Astronautics 19th Fluid Dynamics, Plasma Dynamics and Laser Conference, held June 8-11 in Honolulu, Hawaii. The papers he presented were titled "An Euler Solver for Calculating the Flowfield of a Helicopter Rotor in Hover and Forward Flight," and "Navier-Stokes Calculations of Wing-Body Configurations."

**Lucius J. Barker**, Ph.D., Edna F. Gellhorn University Professor of Public Affairs and professor of political science, and **Robert H. Salisbury**, Ph.D., Sidney W. Souers Professor of Government, took part in the 45th annual meeting of the Midwest Political Science Association held in Chicago. They participated in a political trivia panel. Others in attendance from the political science department were: **Liane C. Kosaki**, Ph.D., visiting assistant professor of political science, who presented a paper on "Slave Law in the Antebellum South"; **Carol Mershon**, Ph.D., assistant professor of political science, who joined in a panel discussion on political competition, representation and development; and **John Sprague**, Ph.D., professor of political science, who chaired a panel on opinion dynamics and was a panel member for a discussion on analysis of electoral changes using aggregate data. Four graduate students also participated. **LeeAnn Banaszak** was a discussant for a panel on interdisciplinary perspectives on women and politics; **James Clingermayer** presented his paper on "The Strategy and Structure of Municipal Zoning: A Comparative Institutional Approach"; **Charles Hessenius** co-authored a paper on "Expansion of the Public Economy Revisited: Reassessing Domestic Factors"; and **Paul Johnson** gave a paper on "Social Choice in Voluntary Organizations."

**Kenneth M. Chackes**, J.D., visiting assistant professor of law, was appointed by Chief Judge John Nangle, of the United States District Court, Eastern District of Missouri, to chair a Federal Practice Subcommittee on Appointment of Counsel in Civil Rights Cases. The subcommittee will develop a plan for the training and appointment of lawyers to represent indigent plaintiffs in federal civil rights cases. His article, "Sheltering the Homeless: Judicial Enforcement of Governmental Duties to the Poor," was published in the winter 1987 issue of the *Washington University Journal of Urban and Contemporary Law*. He also delivered a speech to the St. Louis University Chapter of the Christian Legal Society on "Today's Homeless: Is There a Legal Remedy?"

**Arthur T. Denzau**, Ph.D., and **Charles L. Leven**, Ph.D., both professors of economics, received a 1986 award for Excellence in Planning by the Missouri Chapter of the American Planning Association for their report to the St. Louis public schools on "Alternative Revenue Sources: Local Revenue Generation."

**Gray L. Dorsey**, J.S.D., Charles Nagel Professor of Jurisprudence and International Law, presented a paper on "Bridging the Gap Between Political Scientists and Lawyers" at the annual meeting of the American Society of International Law in Boston.

**Derek M. Hirst**, Ph.D., professor of history, was a sponsored participant in China's first international conference on Western history, held May 5-12 in Nanjing, China. Hirst gave a paper on "The Origins and Nature of the English Revolution." He also gave a talk at Suzhou University.

**Charles L. Leven**, Ph.D., professor of economics, recently was appointed by Mayor Vincent C. Schoemehl Jr., as a member of the City of St. Louis Tax Reform Commission.

**Jeffrey L. Marsh**, M.D., professor of surgery and director of the Cleft Palate and Craniofacial Deformities Institute at Children's Hospital, recently presented research findings at the 44th anniversary meeting of the American Cleft Palate Association in San Antonio, Texas. Five papers were presented before an international audience of more than 500 physicians, dentists and speech-language pathologists and other health professionals involved in research and/or treatment of cleft lip, cleft palate and other craniofacial abnormalities.

**Gary A. Ratkin**, M.D., assistant professor of clinical medicine, has been reappointed, for the third year, chairman of the Clinical Practice Committee of the American Society of Clinical Oncology. Ratkin chaired the Clinical Practice Forum at the annual session of the American Society of Clinical Oncology. The topic was "Are Response Modifiers Ready for the Practicing Oncologist?"

**Heikki Seppa**, professor of art and head of metalsmithing studies, was named a fellow of the American Craft Council at a recent ceremony in Washington, D.C. The American Craft Council is the nation's leading advocacy organization for contemporary craft. The council's College of Fellows was established in 1975 to acknowledge and honor outstanding contributors to the American craft movement. Fellowship candidates are chosen annually by their peers, who confer the honor only to those who have been professionally involved in their field for more than 25 years, and who have served as primary factors in craft education, literature or leadership.

**Isidore Silver**, Ph.D., Rosa May Distinguished University Professor Emeritus in the Humanities, has received a two-year grant of \$55,000 from the Division of Research Programs of the National Endowment for the Humanities in support of a work in progress on "Ronsard's Philosophic Thought."

## Have you done something noteworthy?

Have you: Presented a paper? Won an award? Been named to a committee or elected an officer of a professional organization? The *Washington University Record* will help spread the good news. Contributions regarding faculty and staff scholarly or professional activities are gladly accepted and encouraged. Send a brief note with your full name, highest-earned degree, current title and department along with a description of your noteworthy activity to Notables, Campus Box 1070. Please include a phone number.

## Faculty promoted

The following faculty received promotions, effective July 1, 1987.

### Hilltop Campus

John R. Bleeke, to associate professor of chemistry; Seth A. Carlin, to professor of music; \*Anders E. Carlsson, to associate professor of physics; \*Robert F. Dymek, to professor of earth and planetary sciences; \*Carolyn Sue Gordon, to associate professor of mathematics; Leonard S. Green, to professor of psychology;

\*William C. Kirby, to associate professor of history; Marilyn Krukowski, to professor of biology; \*Robert E. Morley Jr., to associate professor of electrical engineering; Robert E. Morrell, to professor of Japanese language and literature; \*Nicolas Papanicolaou, to associate professor of physics; \*Dolores Pesce, to associate professor of music;

Barbara G. Pickard, to professor of biology; \*Carol Lynne Tatlock, to associate professor of German; \*Karen L. Tokarz, to professor of law; Barry R. Weingast, to professor of political economics; Gerhild S. Williams, to professor of German; Edward N. Wilson, to professor of mathematics; \*Colette H. Winn, to associate professor of French;

### School of Dental Medicine

\*Philip A. Osdoby, to associate professor of anatomy in the School of Dental Medicine;

### School of Medicine

Hans Dieter Ambos, to research associate professor of medicine; Joseph T. Black, to associate professor of clinical neurology; Janina M. Brajtburg, to research associate professor of medicine; Garrett M. Brodeur, to associate professor of pediatrics; \*Michael E. Cain, to associate professor of medicine;

Judith M. Connett, to research assistant professor of surgery (general surgery); Philip L. Custer, to assistant professor of clinical ophthalmology; Bahman Emami, to professor of radiology; Robert J. Fallon, to assistant professor of pediatrics; Phillip Gambel, to research assistant professor of surgery (general surgery);

\*Harvey S. Glazer, to associate professor of radiology; Jeffrey I. Gordon, to professor of medicine; Mae O. Gordon, to assistant professor of biostatistics; David I. Gottlieb, to professor of neurobiology; William M. Hart Jr., to professor of

ophthalmology; J. Michael Hatlelid, to assistant professor of clinical neurology;

Ryuji Higashikubo, to research assistant professor of cancer biology in radiology; Joseph L. Kenzora, to assistant professor of medicine; Robert R. Kuske, to assistant professor of radiology; Thomas J. Lauterio, to research assistant professor of medicine; Bruce D. Lindsay, to assistant professor of medicine; Jeffrey L. Marsh, to professor of surgery (plastic and reconstructive surgery);

John P. Merlie, to professor of pharmacology; John W. Miller, to assistant professor of neurology; Aubrey R. Morrison, to professor of medicine; Curtis A. Parvin, to assistant professor of biostatistics; Madelon T. Price, to research associate professor of neurobiology in psychiatry; John P. Rice, to professor of mathematics in psychiatry; Lee A. Rigg, to associate professor of clinical obstetrics and gynecology; Steven M. Rothman, to associate professor of pediatrics; Joseph L. Roti Roti, to professor of cancer biology in radiology; Michael B. Rumelt, to assistant professor of clinical ophthalmology;

\*Shirley A. Sahrman, to associate professor of physical therapy; Marc H. Schieber, to assistant professor of neurology; Earl R. Schultz, to professor of clinical neurology; \*Joseph R. Simpson, to associate professor of radiology; Abraham Z. Snyder, to assistant professor of neurology; Selden E. Spencer, to assistant professor of neurology;

Myrlene A. Staten, to assistant professor of medicine; Kenneth R. Stone, to research assistant professor of pathology; Brian K. Suarez, to professor of genetics in psychiatry; Jerold W. Wallis, to assistant professor of radiology; Todd H. Wasserman, to professor of radiology; Robert H. Waterston, to professor of genetics;

Howard I. Weiss, to assistant professor of clinical neurology; \*Howard G. Welgus, to associate professor of medicine (dermatology); Richard D. Wetzel, to professor of medical psychology in psychiatry; Samuel A. Wickline, to assistant professor of medicine; Robert A. Wolf, to assistant professor of medicine; and Douglas A. Young, to research assistant professor of medicine.

\*Promotions with tenure

## NEWSMAKERS

Washington University faculty and staff make news around the globe. Following is a digest of media coverage they have received during recent weeks for their scholarly activities, research and general expertise.

### Lasers that have revolutionized

certain surgical procedures are discussed by George M. Bohigian, M.D., associate professor of clinical ophthalmology, in the May 17 edition of the *Orlando Sentinel*. Bohigian believes that although the laser can be a useful surgical tool, conventional methods of surgery are sometimes better and almost certainly less

expensive. He says the use of the laser should and will continue to expand, but should be used only when it is the most appropriate and effective tool available.

**The National Medal of Arts**, which recognizes both artistic excellence and support of the arts, was presented by President and Mrs. Ronald Reagan to Howard Nemerov, Edward Mallinckrodt Distinguished University Professor of English. Nemerov received the medal June 18 at the White House. The June 11 *Washington (D.C.) Post* announced the 11 1987 recipients.



# CALENDAR

Aug. 6-27

## LECTURES

Thursday, Aug. 13

4 p.m. Dept. of Chemistry Seminar, "The Chemistry of Metal Complexes Containing Highly Substituted Allyl Ligands," Mike Silver, prof. of chemistry, Hope College. 311 McMillen.

## EXHIBITIONS

The Gallery of Art will be closed through Oct. 2 while the lower level of galleries are renovated. It will reopen with a special exhibition, called "Paris in Japan," organized by the Gallery of Art and the Japan Foundation of Tokyo.

## MISCELLANY

Thursday, Aug. 6

8:30 a.m. Sixth International Conference on Mathematical Modelling at the Adam's Mark Hotel, 112 N. Fourth St. (Also Fri., Aug. 7, 8:30 a.m. — 5:10 p.m., Adam's Mark Hotel.) The conference is co-sponsored by Washington University, the Institute for Applied Sciences in St. Louis, the Air Force Office of Scientific Research, and the International Association for Mathematical Modelling, among other organizations. For more info., call Patricia A. Busch, conference coordinator, at 889-5806.

Monday, Aug. 24

10 a.m.-4 p.m. Plant Sale sponsored by the Women's Society and the Women's Panhellenic Association. Friedman Lounge, first floor, Wohl Center. Prices for the plants range from \$1.25 to \$20. Proceeds will go to the Women Society's Scholarship Fund and the association's general fund. For more info., call 645-6505.

Tuesday, Aug. 25

7 p.m. Performing Arts Department "Welcome Back to School Party." Edison Theatre. This is an orientation for students interested in drama and dance.

### Calendar Deadline

The deadline to submit items for the Sept. 3-12 calendar of the *Washington University Record* is Aug. 20. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Address items to King McElroy, calendar editor, Box 1070.

## Giant plant sale set for Aug. 24

Approximately 1,500 plants, ranging from ferns to plants in hanging baskets, will be sold during the popular giant plant sale from 10 a.m. to 4 p.m. Monday, Aug. 24, in Friedman Lounge, located on the first floor of Wohl Center. Prices for the plants will range from \$1.25 to \$20. The event is open to the public.

The annual plant sale is sponsored by the Women's Society and the Women's Panhellenic Association. Proceeds will go to the Women Society's Scholarship Fund and the association's general fund.

Volunteers are needed to sell and price the plants. Lou Emser and Lorie Miskel, members of the Women's Society, will co-chair the event. For more information, call 645-6505.



A three-hour cruise aboard "The President" riverboat is one of a multitude of activities planned for new students during Orientation Week.

## From chancellor's fireside stories to riverboat cruise, new students will receive warm welcome to campus

From learning how to study in college, to bopping to the music of Bob Kuban Brass, Washington University's new students will get a diverse taste of University life during Orientation Week Aug. 21-Sept. 7. Approximately 1,325 freshmen and 155 transfer students will be enrolled at the University this fall.

Highlights of the week include a welcoming address by Chancellor William H. Danforth; a three-hour cruise aboard the "The President," with music by Bob Kuban Brass; an academic convocation in Graham Chapel that officially opens the school year; a welcome to the city by Karen Foss, news anchor at KSDK-TV Channel 5; the dean's meeting for freshmen; and the talent show, featuring the chancellor telling his popular fireside stories.

There also will be academic advising sessions, dances, picnics, a student activities fair, barbecues, sorority and fraternity rush happenings, a giant plant sale, open house events for the College of Arts and Sciences and the South-40 Computer Center, the Washington University Olympics featuring eccentric competitions, and workshops on subjects ranging from test-taking tactics to time management.

Approximately 130 freshmen and 25 student counselors are expected to attend Freshman Camp, which is designed to help ease the students' transition to college life. The camp will be held Aug. 18-20 at Trout Lodge, a YMCA facility near Potosi, Mo. Among the topics to be explored are communication skills, jobs and money management, and drugs and alcohol awareness.

In addition to the events scheduled for students, an orientation program for parents will be held Aug. 21 and 22. Highlights include a welcoming address by Danforth and presentations by faculty members Howard Nemerov, Edward Mallinckrodt Distinguished University Professor of English, and Raymond L. Hilgert,

D.B.A., professor of management and industrial relations. Nemerov, recipient of the National Medal of Arts and the Pulitzer Prize, will read and discuss his works during a talk on "Poetry and Prose Relative to Education." Hilgert will speak on "Whatever Happened to Ethics in Business and Education?"

The schedule also will feature dean's meetings for parents, a reception hosted by the chancellor and his wife, Elizabeth, and a discussion on letting go of college-bound children.

Several activities are slated for Washington's new international and black students during Orientation Week. Among the events for international students are a formal orientation program, a reception hosted by the Danforths, a bus tour of St. Louis, a trip to Meramec Caverns near Stanton, Mo., and discussions designed to acquaint the students with Washington University and the city. The Danforths also will host a picnic for transfer students.

On Sunday, Aug. 23, local area black churches will provide shuttle buses to transport students to their congregations. Various denominations will be represented. The Association of Black Students (ABS) is sponsoring the event. In addition, ABS is sponsoring a lecture by Atlanta attorney and professional orator Patricia Russell-McCloud, who will discuss the black students' role on a predominantly white campus. Other ABS-sponsored activities include a formal welcoming ceremony, where new black students will meet administrators and other students; a pool party and barbecue; and a Labor Day picnic at Creve Coeur Park. The College of Arts and Sciences will sponsor a reception for black students as well.

Approximately 300 more freshmen will live in the residence halls this year than last year, according to Patricia Fink, area coordinator for administration in the Department of Residential Life. As of July 24, she

said, the department received 1,260 freshman housing contracts. A total of 935 freshmen lived on the South-40 last year.

To accommodate the larger influx of students, Fink says the University will lease a residence hall on the Fontbonne College campus as a new all-freshman dorm. To welcome the new freshmen, the dorm has been named Washington Hall. It is located south of the University on Big Bend Boulevard.

"What we're hoping to do is make living in Washington Hall a real first-year experience for the freshmen," Fink says. "We're going to have some special programming from administrators and faculty. We're very excited about it. It's an opportunity to provide some wonderful activities outside the classroom."

Fink says six resident advisers and a head resident will work at the freshman hall. She says the dorm will house about 100 students. All of the rooms are for single occupancy. Freshmen living in the hall will be allowed to have cars and may park on the lot behind the building.

This year, transfer students will not be offered housing on the South-40 because of the large freshman class. Fink says many transfer students will live off campus in Parkview Village and DeBaliviere Place, where the University leases apartments.

"We're also offering a good incentive for upperclassmen who have University housing to move to DeBaliviere Place," Fink says. "Two-bedroom furnished apartments at DeBaliviere Place are being offered at a rate comparable to that of a double room in the residence halls. We're hoping about 100 upperclassmen will move to DeBaliviere Place under this arrangement."

For more information about Orientation Week, call Marcia Hayes-Harris at 889-6679.